THE DETAILS THAT FOLLOW ARE TO SUPPLEMENT THE REQUIREMENTS IMPOSED BY THE CITY, OR THE CITIES. HAVING JURISDICTION OVER THE AREAS OF WORK INVOLVED IN THIS CONTRACT. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. IN CASE THAT ONE OR MORE ELEMENTS OF THE WORK ARE NOT COVERED BY JURISDICTIONAL REQUIREMENTS. THE REQUIREMENTS INCLUDED WITH THE DETAILS THAT FOLLOW SHALL APPLY.

RECEIVED

FEB 1 4 2012 Call before you

1-800-424-5555

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SIGNED:	PROJECT MANAGER:	SCALE:	Γ
PE/CA/AM	L. KRENZEL	AS NOTED	
RAWN;	APPROVED:	SITE LOCATION NO:	l
R. BULGER	L. PARRIOT	`	
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King County	
Department of	
Transportation	

RAPIDRIDE PROGRAM - C , D AND E LINES PASSENGER FACILITIES IMPROVEMENTS

STANDARD METRO DETAILS

G0.00.1

JUNE 2011

GENE	ERAL NO	TES	STRUCTURAL NOTES	ABBREVIATIONS	SYMBOL LEGEND	
1. THE DETA	D100 DRAW	VING SERIES ARE STANDARD CONSTRUCTION TRO TRANSIT PASSENGER FACILITIES. REFER	1. <u>CODES & STANDARDS</u> INTERNATIONAL BUILDING CODE (IBC)		2%	DIRECTION OF DRAINAGE AND SLOPE
2. DETA	SITE PLANS AILS MAY BE	FOR APPLICABLE DETAILS. MODIFIED TO FIT EXISTING SITE CONDITIONS. S ON PROPOSED SITE PLAN FOR	2009 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 (REVISED 2008)	ACP ASPHALT CONCRETE PAVEMENT # NUMBER ACC. ON CENTER APPROX APPROXIMATELY PCCP PORTLAND CEMENT APWA AMERICAN PUBLIC CONCRETE PAVEMENT	4	SIGN (EXISTING) SIGN (NEW)
MOD 3. CURI	IFICATIONS. B RAMPS SE	HALL LINE UP WITHIN MARKED CROSSWALK IF ON PLANS. PROJECT REPRESENTATIVE TO	2. <u>ASPHALT PAVEMENT</u> REFER TO TECHNICAL SPECIFICATIONS SECTION 32 12 16 A	WORKS ASSOCIATION PL. PLACE AVE AVENUE PP POWER POLE CB CATCH BASIN PSI POLININS PER	* *	FENCE DITCH WITH SLOPE AND FLOW INDICATORS
CON	D LOCATE CE STRUCTION.	PROJECT REPRESENTATIVE TO ENTER OF CURB RAMPS PRIOR TO PROVIDE PROJECT REPRESENTATIVE WITH 48 DF REQUIRING RAMPS TO BE FIELD LOCATED.	3. <u>PORTLAND CEMENT CONCRETE PAVEMENT</u> REFER TO TECHNICAL SPECIFICATIONS	CL CLEAR SQUARE INCH CO CEAN OUT PVC POLYVINYLCHLORIDE CONC CONCRETE R RADIUS		PROPERTY LINE
		The state of the s	SECTION 32 13 13-A 4. CAST-IN-PLACE CONCRETE	IE INVERT ELEVATION REF FOR REFERENCE ONLY E EAST R/W RIGHT OF WAY	E	CENTER LINE
			REFER TO TECHNICAL SPECIFICATIONS SECTION 03 30 00	EH ELECTRIC HANDHOLE SEC SECTION EXIST EXISTING SB SIGN—BUS SIGN		NEW CONCRETE PAVEMENT
			5. <u>REQUIREMENTS FOR REINFORCED CONCRETE</u> AMERICAN CONCRETE INSTITUTE (ACI) 318 (REVISED 2008).	EV ELECTRIC VALVE SW SOUTHWEST EW EACH WAY SQ SQUARE FH FIRE HYDRANT SS STAINLESS STEEL	● UP	ROAD PAVEMENT REMOVAL EXISTING UTILITY POLE
			f'c = 4000 PSI fy = 60,000 PSI	GA GUY ANCHOR STL STEEL GRS GALVANIZED RIGID STEEL ST STREET	Qr.	EXISTING LIGHT POLE
			POZZOLANS = 25% MIN. 6. FOUNDATION PRESSURE DATA:	GV GAS VALVE STD STANDARD HMA HOT MIXED ASPHALT STS STREET SIGN HORIZ HORIZONTAL TOP TOP OF WALL	a	NEW LIGHT POLE
			ALLOWABLE BEARING PRESSURE = 2.0 KSF. FOUNDATION BEARING SURFACE AND REINFORCING STEEL PLACEMENT SHALL BE APPROVED	HT HEIGHT TP TOP OF PAD HWY HIGHWAY TPD TELEPHONE PEDESTAL	(+)	DECIDUOUS TREE
			BY THE KING COUNTY PROJECT REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.	LP LIGHT POLE TSP TRAFFIC HANDHOLE LR LITTER RECEPTACLE TW TOP OF WALL TOP OF WALL	W.	EVERGREEN TREE
			7. REINFORCING STEEL GRADE 60 a. MINIMUM COVER ON REINFORCING STEEL IN WALLS:	MAX MAXIMUM TYP TYPICAL MH MANHOLE VERT VERTICAL		BUSH OR SHRUB
			EXPOSED TO EARTH — 2" EXPOSED TO WEATHER — 1 ½" (#5 & SMALLER)	MIN MINIMUM W WEST MIC MOMUMENT IN CASE W/ WITH MON SURFACE MONUMENT WM WATER METER	2.40 ×	EXISTING SPOT ELEVATION
			b. SLABS ON GRADE, AND FOUNDATIONS: EXPOSED TO EARTH — 3"	N NORTH W/O WITH OUT NC NATIONAL COARSE WV WATER VALVE	1.00	FINISHED ELEVATION
			EXPOSED TO WEATHER - 3" (#5 & SMALLER)	NE NORTHEAST N.I.C. NOT IN CONTRACT NO. NUMBER	0	COLUMN MOUNTED LITTER RECEPTACLE
INDE	X TO DR	AWINGS	8. <u>Detailing of Reinforcing Steel</u> Detail in accordance with aci 318-08.	TO. HOWBER	LR	LITTER RECEPTACLE
SHEET N	IO. DRAWING GO.00	NO. <u>DRAWING TITLE</u> COVER SHEET	 SUBMIT REINFORCING STEEL DETAILS FOR APPROVAL PRIOR TO FABRICATION AND PLACEMENT. 	TYPICAL ELEVATION, SECTION AND		BENCH (1' x 4')
2	G0.01	GENERAL NOTES, STRUCTURAL NOTES, SYMBOL LEGEND & ABBREVIATIONS	b. SUBMIT SHOP FABRICATION DRAWINGS ON ALL PRECAST CONCRETE TO KING COUNTY PROJECT REPRESENTATIVE FOR APPROVAL PRIOR TO FABRICATION.	DETAIL NUMBERING CONVENTIONS		BLADE MARKER
3	G0.02	RAPID RIDE FACILITY NOTES	9. <u>DESIGN_LOADING</u>	3/0307	⊕ MON	MONUMENT/TBM TECH PYLON W/ OVERHEAD
4	D101	RAPID RIDE SHELTER FOOTING SECTIONS & DETAILS	ROOF SNOW LOAD = 25 PSI BASIC WIND SPEED = 85 MPH	DRAWING ON WHICH ELEVATION APPEARS. ———————————————————————————————————		REAL TIME DISPLAY (1.5'x 5' & 1'x 5')
5	D102	RAPID RIDE TECH PYLON AND BLADE MARKER FOUNDATION DETAILS	WIND EXPOSURE B SEISMIC DESIGN CATEGORY D	ELEVATION NUMBER	<u>(</u>	BIKE LOOP
6	D103	STANDARD SHELTER FOOTING PLANS, SECTIONS AND DETAILS	SEISMIC SITE CLASS D	SECTIONS SECTION LETTER		RAPID RIDE SHELTER FOOTING WITH DASHED ROOF OVERHANG OUTLINE
. 7	D104	SECTIONS AND DETAILS	UNDERGROUND ELECTRICAL OR COMMUNICATION CONDUIT SHALL BE PVC SCHEDULE 80, 1 DIAMETER MINIMUM UNLESS STATED OTHERWISE.	C101		ELECTRICAL HANDHOLE
8	D105 D106	DETAILS COUNTERFORT WALL SECTIONS	CONDUITS UNDER PAVEMENT AND WITHIN FURNITURE FOUNDATIONS SHALL BE RIGID GRS.	DRAWING ON WHICH SECTION APPEARS. ———————————————————————————————————		
10	D107	MISCELLANEOUS SECTIONS AND DETAILS	11. <u>STRUCTURAL FILLS</u> REFER TO TECHNICAL SPECIFICATIONS	SAME SHEET. DETAIL NUMBER		
11	0108	MISCELLANEOUS SECTIONS & DETAILS	SECTION 31 00 00	DETAIL NUMBER DRAWING ON WHICH DETAIL		•
12	D109	MISCELLANEOUS SECTIONS AND DETAILS		C101 APPEARS INDICATES THE DRAWING ON WHICH DETAIL APPEARS INDICATES THE DRAWING IN WHICH DETAIL		
13	D110	CURB RAMP CONSTRUCTION DETAILS		SAME SHEET.		
14	D111 D112	INTERNAL SOLAR SHELTER LIGHTING — GROUNDING DETA HANDHOLE CONDUIT DETAILS		DETAIL & SECTION LABELSSECTION LETTER OR		
				DETAIL NUMBER		
				SECTION (A) SCALE: 1/2" = 1'-0" (C10)		
				before yo	I	
				INDICATES THE DRAWING IS ON THE SAME SHEET. DRAWING IS 1-800-424-555 UNDERGROUND SERVICE (US	5	
			M ASOMAL	DESIGNED: PE/CA/APP PE/CA/APP L. KRENZEL PH AS NOTED		RANSIT DIVISION M. C. D. AND F. LINES JUNE 2011
				DRAWN: APPROVED: SITE LOCATION NO: R. BULGER L. PARRIOT	PASSENGER FAC	M - C , D AND E LINES CILITIES IMPROVEMENTS
			39310	CHECKED: ONE INCH AT FULL King County		L NOTES, DRAWING NO:
No.		REVISION BY APP'D DATE	COSTES ON A CONTROL OF THE CONTROL O	RECOMMENSED: CONTRACT NO: IF NOT ONE INCH, SCALE	311100101	RAL NOTES, O & ABBREVIATIONS GO.01 SHEET NO: OF 11
L			Gan	D CRIPPIN CO0635C11 ACCORDINGLY	JIMBUL LEGENL) & ABBREVIATIONS 2 15

| V/Library & Standards/Warking Dacuments/PFPMetro/PFP = C and D Lines\G0.01.dng | Layout: PLOTED: Ann O2, 2011-045.354-5pn By Bulgerr STGFF = C Ann C 2, 2011-045.

METRO RAPID RIDE FACILITY NOTES

APPLICABILITY

THE REQUIREMENTS IN THESE NOTES, AS WELL AS IN THE CONTRACT SPECIFICATIONS, SUPPLEMENT THE REQUIREMENTS OF THE CITY OR CITIES HAVING JURISDICTION OVER THE WORK IN THIS CONTRACT. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. IN CASE THAT ONE OR MORE ELEMENTS OF THE WORK ARE NOT COVERED BY REQUIREMENTS OF A CITY, OR CITIES, THE REQUIREMENTS IN THESE NOTES SHALL APPLY.

GENERAL NOTES

- ALL WORK METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND
 THE LATEST EDITION OF THE SPECIFICATIONS AND THE APPLICABLE DEVELOPMENT GUIDELINES AND DESIGN
 AND CONSTRUCTION STANDARDS FROM THE CITY HAVING JURISDICTION OVER THE SITES OF WORK.
- CONTACT EACH CITY'S PUBLIC WORKS DEPARTMENT AND SCHEDULE AND ATTEND A PRECONSTRUCTION
 MEETING AT LEAST ONE WEEK BEFORE BEGINNING CONSTRUCTION. ATTENDANTS TO INCLUDE EACH CITY'S
 APPOINTED REPRESENTATIVE(S) AND THE PROJECT REPRESENTATIVE.
- ASSUME FULL RESPONSIBILITY FOR WORKER SAFETY, AND DAMAGE TO STRUCTURES AND IMPROVEMENTS
 RESULTING FROM CONSTRUCTION OPERATIONS.
- 4. MAINTAIN THE FOLLOWING THROUGHOUT THE EXECUTION OF THIS PROJECT, AND AT A LOCATION KNOWN AND ACCEPTABLE TO THE PROJECT REPRESENTATIVE AND THE CITIES REPRESENTATIVES ASSIGNED TO THE PROJECT:
 - A. ALL APPLICABLE PERMITS, AND CONDITIONS THEREIN.
 - B. THE APPROVED PLANS.
 - C. A CURRENT COPY OF THE DEVELOPMENT GUIDELINES AND DESIGN AND CONSTRUCTION STANDARDS FROM EACH CITY HAVING JURISDICTION OVER THE SITES OF WORK.
 - D. TRAFFIC CONTROL AND STREET MAINTENANCE PLANS APPROVED BY THE CITY OR CITIES HAVING JURISDICTION OVER THE SITES OF WORK.
 - E. A CURRENT SET OF RECORD (AS CONSTRUCTED) DRAWINGS.
 - F. COPIES OF THE HEALTH, SAFETY AND ACCIDENT PREVENTION PLANS.
- 5. WORK SHALL CONFORM TO THE APPROVED DRAWINGS AND THE CONTRACT SPECIFICATIONS. CHANGES TO THESE DOCUMENTS REQUIRE PRE-APPROVAL FROM THE PROJECT REPRESENTATIVE AND THE CITY HAVING JURISDICTION OVER THE SITES OF WORK.
- PROVIDE THE PROJECT REPRESENTATIVE WITH A SET OF RECORD DRAWINGS THAT MEET THE CONTRACT REQUIREMENTS PRIOR TO THE PROJECT FINAL APPROVAL.

WORK SCHEDULE NOTES

 DAYS AND HOURS OF WORK SHALL CONFORM TO THE CONDITIONS IN THE PERMITS ISSUED BY THE CITY HAVING JURISDICTIONS OVER SITES OF WORK.

EROSION CONTROL NOTES

- THE EROSION PREVENTION AND SEDIMENT CONTROL (ESC) MEASURES SHOWN ON THE APPROVED PLANS ARE MINIMUM REQUIREMENTS.
- 2. BEFORE ANY GROUND DISTURBANCE OCCURS, ALL DOWNSTREAM ESC MUST BE CONSTRUCTED AND IN OPERATION. INSTALL AND MAINTAIN ALL ESC MEASURES ACCORDING TO THE ESC PLAN. THESE ESC MEASURES, INCLUDING PERIMETER CONTROLS, SHALL REMAIN IN PLACE UNTIL FINAL CONSTRUCTION IS COMPLETED AT EACH SITE OF WORK AND PERMANENT SOILS STABILIZATION HAS BEEN ACHIEVED.
- 3. FROM MAY 1 THROUGH SEPTEMBER 30, PROVIDE TEMPORARY AND PERMANENT COVER MEASURES TO PROTECT DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR SEVEN DAYS OR MORE.
- 4. FROM OCTOBER 1 THROUGH APRIL 30, PROVIDE TEMPORARY AND PERMANENT COVER MEASURES TO PROTECT DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR TWO DAYS OR MORE. IN ADDITION TO COVER MEASURES, THE CONTRACTOR SHALL:
- A. PROTECT STOCKPILES AND STEEP CUT AND FILL SLOPES IF UNWORKED FOR MORE THAN 12 HOURS.

 B. STOCKPILE, ON SITE, ENOUGH COVER MATERIALS TO COVER ALL DISTURBED AREAS.
- BY OCTOBER 8, SEED ALL AREAS THAT WILL REMAIN UNWORKED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30), MULCH ALL SEEDED AREAS.

UTILITY NOTES

- NOT ALL UNDERGROUND UTILITIES ARE NECESSARILY SHOWN ON THE DRAWINGS. CALL 1-800-424-5555 FOR UNDERGROUND UTILITY FIELD LOCATION 48 HOURS PRIOR TO BEGINNING WORK AT FACH SITE.
- FIBER OPTIC CABLES ARE BURIED WITHIN MOST OF THE SITES OF WORK. EXERCISE EXTREME CARE TO AVOID DAMAGE TO THESE CABLES. REPAIR OR REPLACE THEM, AS DIRECTED BY THE PROJECT REPRESENTATIVE AND TO THE SATISFACTION OF THEIR OWNER(S), IF DAMAGED AS A RESULT OF THE WORK UNDER THIS CONTRACT.
- 3. ALL TRENCH EXCAVATION OPERATIONS SHALL MEET OR EXCEED ALL APPLICABLE SHORING LAWS FOR TRENCHES. ALL TRENCH SAFETY SYSTEMS SHALL MEET WISHA REQUIREMENTS.

TRENCHING THAT MAY AFFECT TREE ROOTS SHALL BE DONE UNDER THE SUPERVISION OF AN ARBORIST APPROVED BY THE CITY HAVING JURISDICTION OVER THE SITE WORK.

4. ADJUST TO NEW GRADE ALL MANHOLES, CATCH BASINS, BOXES AND HAND HOLES.

WORK IN RIGHT-OF-WAY AND WITHIN PRIVATE PROPERTY EASEMENTS

- WHEN THE WORK SITE IS UNATTENDED, INSTALL A SIGN WITH MINIMUM TWO-INCH LETTERS STATING PERMITTEE OR COMPANY NAME, AND DAY AND EVENING PHONE NUMBERS.
- INSTALL BARRICADES, SIGNS, WARNING LIGHTS, AND SAFETY DEVICES SUFFICIENT TO NOTIFY PUBLIC OF OBSTRUCTIONS OR TRAFFIC HAZARDS. DEVICES MUST REMAIN UNTIL THE OBSTRUCTIONS OR TRAFFIC HAZARDS ARE CLEARED.
- 3. MAINTAIN ACCESS TO FIRE STATIONS, FIRE HYDRANTS, FIRE ESCAPES, AND FIRE FIGHTING EQUIPMENT.
- 4. MAINTAIN ACCESS TO PROPERTY AND BUSINESSES ADJOINING THE SITES OF WORK, FURNISH, INSTALL AND MAINTAIN TEMPORARY "BUSINESSES ARE OPEN" SIGNS AT LOCATION DESIGNATED BY THE PROJECT REPRESENTATIVE. REMOVE UPON COMPLETION OF WORK.
- 5. PRESERVE AND PROTECT ALL PROPERTIES ADJOINING THE SITES OF WORK.
- RESTORE AREAS DISTURBED BY THE WORK TO ORIGINAL OR BETTER CONDITION. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY AND TO THE SATISFACTION OF THE PROJECT REPRESENTATIVE.
- 7. DO NOT DISTURB SURVEY MONUMENTS AND MARKERS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CITY HAVING JURISDICTION AND FROM THE PROJECT REPRESENTATIVE, REPLACEMENT OR RESETTING OF DISTURBED MONUMENTS AND MARKERS SHALL BE BY A WASHINGTON STATE LICENSED LAND SURVEYOR.
- 8. INSTALL TEMPORARY ADA—COMPLIANT SIDEWALK OR CURB RAMPS IF PERMANENT RAMPS ARE BLOCKED. IF IT WERE INFEASIBLE TO PROVIDE TEMPORARY RAMPS, PROVIDE APPROPRIATE ACCESS DETOURS, WITH THE CORRESPONDING SIGNAGE AND AT LOCATIONS APPROVED BY THE PROJECT REPRESENTATIVE.
- COVER OPEN EXCAVATION WITH NON-SKID STEEL PLATES RAMPED TO ELEVATION OF CONTIGUOUS SURFACES.
- 10. MATERIAL STOCKPILING AT THE SITES OF WORK SHALL BE MAINTAINED TO A MINIMUM AND ONLY AS APPROVED BY CITY INSPECTORS, AFFECTED PROPERTY OWNERS AND THE PROJECT REPRESENTATIVE. MATERIALS SHALL BE STORED AS NECESSARY TO PROTECT THE PUBLIC.
- 11. WHERE TRAFFIC LANES AND SIDEWALK CLOSURES ARE REQUIRED, IMPLEMENT THEM AS NECESSARY TO MINIMIZE PUBLIC IMPACT AND IN STRICT CONFORMANCE WITH THE CORRESPONDING, CITY—APPROVED, TRAFFIC CONTROL PLANS.
- 12. UNLESS INDICATED OTHERWISE IN THE CONDITIONS OF THE CORRESPONDING PERMITS, COMPLETE CONCRETE AND OTHER SURFACING OR RESURFACING WORK UNDER THE FOLLOWING SCHEDULE:

 A. IN PRINCIPAL ARTERIALS AND MAJOR COLLECTOR STREETS: WITHIN 3 CALENDAR DAYS.

 B. IN OTHER STREETS: WITHIN 7 CALENDAR DAYS.

DEMOLITION NOTES

- CALL 1-800-424-5555 FOR LOCATING UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING SITE WORK.
- 2. AT LEAST FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION AND CLOSING OF ANY BUS STOP, CONTACT METRO TRANSIT CONSTRUCTION COORDINATOR AT (206) 684-2785 TO COORDINATE POSTING RIDER ALERT ABOUT BUS STOP CLOSURE AND ESTABLISHMENT OF INTERIM BUS ZONES.
- 3. WHEN ENCOUNTERING CONSTRUCTION SITES WITH EXISTING TRANSIT FURNITURE SUCH AS SHELTERS, PEDESTRIAN LIGHT POST AND LUMINARIES, BENCHES, LITTER RECEPTACLES AND BUS STOP SIGNS AND POSTS EXIST, CALL PAUL SORENSEN (206-684-2254) OR ROBIN ABILLE (206-684-2260) OF TRANSIT SOUTH FACILITIES AT LEAST 72 HOURS PRIOR TO MOBILIZATION SO THEY CAN HAVE THE FURNITURE AND FIXTURES REMOVED AND SALVAGED TO METRO TRANSIT.
- 4. AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION AT A SITE OF WORK, CONTACT DOUG MUSSELMAN-BROWN OF SEATTLE TIMES AT (206) 423-4384 OR EMAIL DMBROWN@SEATTLETIMES.COM TO HAVE NEWSPAPER BOXES REMOVED FROM THE SITE.
- REMOVE DEMOLITION DEBRIS FROM THE WORK SITES AT THE END OF EACH DAY AND DISPOSE OF IT AT LEGALLY APPROVED SITES.
- 5. UNLESS OTHERWISE SPECIFIED ON THE SITE PLANS, EXISTING PEDESTRIAN LIGHT POLE FOUNDATIONS DESIGNATED TO BE REMOVED SHALL BE TAKEN OUT ENTIRELY. ELECTRICAL CONNECTORS SHALL BE REMOVED FROM THE CONDUITS FROM HAND—HOLE TO THE EXISTING FOUNDATION. IF THE CONDUIT IS EXPOSED, REMOVE IT FROM FOUNDATION TO THE HANDHOLE, OTHERWISE CAP OR PLUG AND ABANDON IN PLACE. PLUG CONDUIT HOLE AT HAND—HOLE.

- 7. IF SPECIFIED ON THE SITE PLANS FOR AN ELECTRICAL HANDHOLE TO BE REMOVED, DE-ENERGIZE AND REMOVE ELECTRICAL CONDUCTORS ALL THE WAY TO THE SOURCE, ABANDON THE CONDUIT IN PLACE AND CAP ITS ENDS WITH EPOXY. THEN, REMOVE THE HANDHOLE AND RESTORE SITE TO MATCH EXISTING.
- SAWCUT PAVEMENT TO BE REMOVED TO STRAIGHT VERTICAL LINES. SIDEWALK PANELS SHALL BE REMOVED TO THE NEAREST SCORE-LINES OR CONSTRUCTION JOINTS. FIELD-VERIFY LOCATION OF SCORE-LINES AND CONSTRUCTION JOINTS.

SITE RESTORATION NOTES

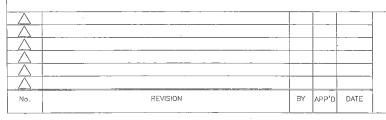
- UNLESS SPECIFIED OTHERWISE, RESTORE SITE TO MATCH EXISTING CONDITIONS WHERE FOUNDATIONS OF SHELTERS, PEDESTRIAN LIGHT POSTS AND OTHER SITE FURNITURE ARE REMOVED. FILL EXCAVATED AREAS WITH STRUCTURAL FILL AND COMPACT TO 95 PERCENT OF PROCTOR DENSITY, RESTORATION WORK SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO LAWN BY SODDING; SURFACING WITH MATCHING BEAUTY BARKS; AND SIDEWALK/PATHWAY REPAIRS THAT MATCH EXISTING MATERIALS, COLOR, AND TEXTURE.
- REFER TO CORRESPONDING ELECTRICAL SITE PLANS FOR ELECTRICAL WORK, INCLUDING CONDUIT RUNS,
 POWER PEDESTAL FOUNDATION AND DETAILS; CONDUIT ENTRY POINTS AT SHELTER/TECH PYLON
 FOUNDATIONS, AND PEDESTRIAN LEVEL LUMINARIES; AND CONNECTION POINTS TO POWER SOURCE.
 RESTORE TO MATCH EXISTING ASPHALT PAVEMENT, LANDSCAPED AREAS, AND CONCRETE SIDEWALK OVER
 TRENCHES EXCAVATED FOR ELECTRICAL WORK.
- 3. PRIOR TO WORKING ON EXISTING SPRINKLER IRRIGATION SYSTEMS, TEST IN THE PRESENCE OF THE PROJECT REPRESENTATIVE AND RECORD THE SYSTEM CONDITION. UPON COMPLETION OF THE CONTRACT WORK, TEST AGAIN TO SATISFY THE PROJECT REPRESENTATIVE THAT THE CONDITION OF THE SYSTEM MEETS THE REQUIREMENT OF THIS CONTRACT.

NEW SITE FURNITURE/FIXTURE NOTES

- BENCHES, LITTER RECEPTACLES AND BIKE LOOPS: METRO TRANSIT WILL FURNISH, TRANSPORT AND INSTALL THE SITE FURNITURE AT EACH BUS ZONE.
- 2. PEDESTRIAN LIGHT POLES AND LUMINARIES: CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL FOUNDATIONS FOR PEDESTRIAN LIGHT POLES AND LUMINARIES. TASKS SHALL INCLUDE PROVIDING AND INSTALLING J-BOLTS, CONDUITS, GROUNDING RODS, REBARS, AND OTHER MATERIALS FOR THE FOUNDATIONS. OBTAIN LUMINARY BOLT CIRCLE PRIOR TO SETTING FOUNDATIONS. UNLESS STATED OTHERWISE ON THE ELECTRICAL SITE PLANS, METRO TRANSIT WILL SUPPLY PEDESTRIAN LIGHT POLES AND LUMINARIES. CONTRACTOR SHALL PICK UP AND TRANSPORT THE LIGHTING HARDWARE FROM METRO SOUTH FACILITIES TO EACH PROJECT SITE. METRO'S SOUTH FACILITIES IS LOCATED AT 11911 EAST MARGINAL WAY S, BUILDING C, TUKWILA, WASHINGTON 98168. CONTRACT PAUL SORENSEN AT (206) 684-2260 AT LEAST 72 HOURS IN ADVANCE. CONTRACTOR SHALL PROVIDE ALL HARDWARE REQUIRED TO CONNECT AND THE PEDESTRIAN LUMINARIES TO THE POWER PEDESTAL OR OTHER POWER SOURCE AS SHOWN ON ELECTRICAL PLANS AND TO MAKE THE LUMINARIES FUNCTIONAL.
- 3. BUS SHELTERS, TECHNOLOGY PYLONS, AND BLADE MARKERS: METRO TRANSIT WILL PROVIDE, TRANSPORT, AND INSTALL THE RAPIDRIDE FIXTURES/FURNITURE UPON COMPLETION OF THE SITE WORK, INCLUDING THE POWER CONNECTION FROM THE FOUNDATIONS TO THE FIXTURES/FURNITURE. CONTRACTOR SHALL PROVIDE CONDUITS AND PULL CONDUCTORS BETWEEN POWER SOURCE AND THE FOUNDATIONS.
- BUS SIGNS. UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS, METRO TRANSIT WILL FURNISH AND INSTALL BUS SIGNS AT THE RAPIDRIDE ZONES.
- 5. OTHER FURNITURE AND HARDWARE NOT MENTIONED IN THIS LIST: FURNISH AND INSTALL OTHER FURNITURE/HARDWARE NOT LISTED BUT SHOWN ON THE DRAWINGS.

Call before you Dig.

1-800-424-5555



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PROJECT MANAGERY

DESIGNED:

PE/CA/AM

L. KRENZEL

AS NOTED

APPROVED:

R. BUCGR

L. PARRIOT

CHECKED:

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WORK REDUEST:

CONTRACT NO:

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King County
Department of
Transportation

. METRO TRANSIT DIVISION

RAPIDRIDE PROGRAM – C , D AND E LINES

PASSENGER FACILITIES IMPROVEMENTS

JUNE 2011

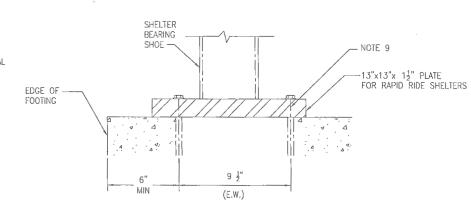
FACILITY NOTES

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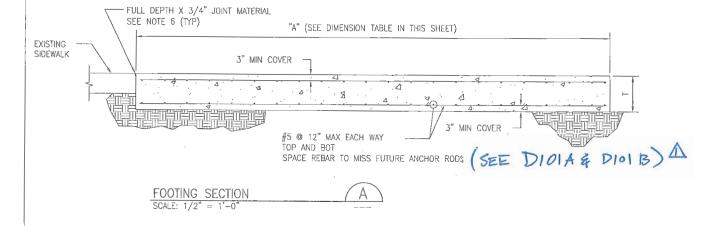
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SHELTER REAR LEG INSTALLATION DETAIL NOT TO SCALE

GENERAL NOTES

- PROVIDE 2% SLOPE TOWARDS STREET TO ASSURE PROPER DRAINAGE OF SURFACE WATER UNLESS DIFFERENT SLOPE IS SPECIFIED ON SITE SPECIFIC PLAN.
- MATCH TO EXISTING SIDEWALK SLOPE TO ASSURE PROPER DRAINAGE OF SURFACE WATER UNLESS DIFFERENT SLOPE IS SPECIFIED ON SITE SPECIFIC PLAN.
- CONTRACTOR SHALL COORDINATE WORK WITH RELATED WORK INCLUDING ELECTRICAL.
- 4 VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK; CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAWAGE TO UTILITIES DURING CONSTRUCTION. METRO DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE, AND LOCATION OF ANY UTILITY.
- COORDINATE THE REQUIREMENTS FOR LOCATION, PROTECTION, AND/OR RELOCATION OF UTILITIES WITH THE UTILITY OWNER PRIOR TO STARTING WORK.
- 6 ISOLATION JOINT BETWEEN FOOTING AND ADJACENT SIDEWALK OR IMPROVEMENTS
- 7 ELECTRICAL CONDUIT LOCATION, SEE <u>D_111</u> FOR DETAILS.
- 8 SHELTER FOOTING REAR ANCHOR BY OTHERS, SEE DETAIL 1 FOR MINIMUM EDGE DISTANCE FROM BACK OF FOOTING
- 9 ANCHOR ROD (4 TYP, BY OTHERS). 1" S. S. THREADED ROD. 8 1/4" MIN EMBED. EPOXY WITH HILTI HIT-HY 150 ADHESIVE, WITH 6" MIN EDGE DISTANCE. FOLLOW HILTI INSTALLATION INSTRUCTIONS
- 10 FOR INTERIM INSTALLATION OF A STANDARD F22 FRAME ON A RR-20 FOOTING, ALSO INSTALL AN ELECTRICAL CONDUIT AT THIS LOCATION. (REAR RIGHT SHELTER LEG.)
- 11 SEE GROUNDING ELECTRODE INSTALLATION DETAILS ON SHEET <u>D111</u> FOR SHELTERS TO RECEIVE SOLAR LIGHTS.



RAP	IDRIDE F	OOTING	DIMENSIC	NS AND	QUANTITIE	ES	
STRUCTURE TYPE	FOOTING TYPE	LENGTH 'A' (MIN)	WIDTH 'B' (MIN)	,C,	THICKNESS 'T' (MIN)	CONCRETE (CY)	REBAR (LBS)
RR-124, RR-125, RR-126	RR-10	9'-8"	4'-4"	3'-3 1/4"	1'-2"	2	190
RR-206, RR-208, RR-208B	RR-15	15'-0"	8'-0"	6'-1 1/4"	1'-6"	7	532
101 200, 101 200, 101 200B	RR-20	20'-0"	5'-0"	6'1 1/4"	1'-6"	6	451
STANDARD F-22	RR-20	20'-0"	5'-0"	6'-1 1/4"	1'-6"	6	451
			(SEE NOTE 10)		

Call before you Dig.

1-800-424-5555

SIZE

METRO TRANSIT DIVISION RAPIDRIDE PROGRAM - C , D AND E LINES PASSENGER FACILITIES IMPROVEMENTS

RAPID RIDE SHELTER FOOTING PLAN, SECTIONS AND DETAILS

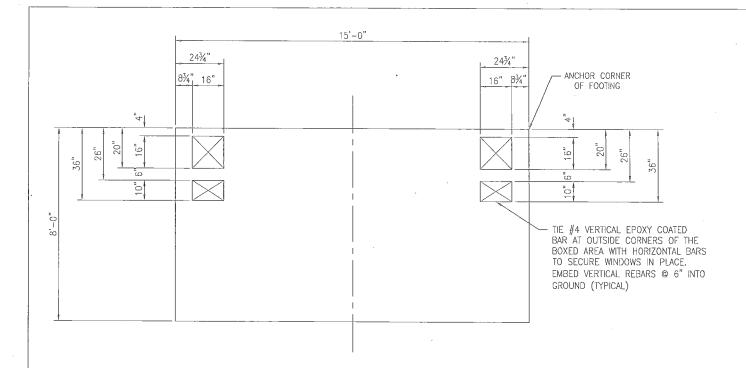
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JUNE 2011

REBAR SPACING & GROUNDING DATE

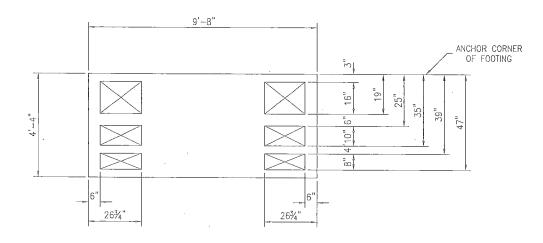
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KingCoanty Department of Transportation

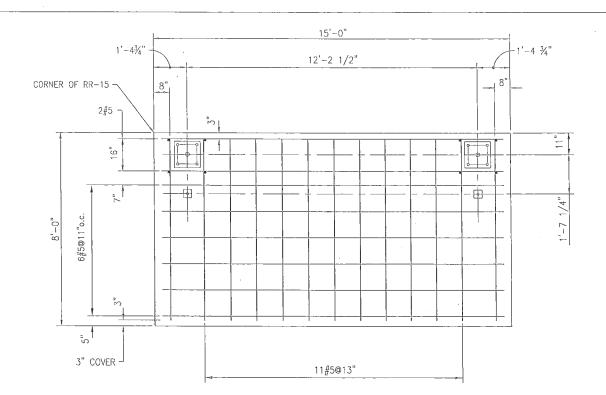


RAPID RIDE RR-15 SHELTER FOOTING (FOR RR206/RR208/RR208B)
REBAR BLOCKOUTS FOR SHELTER ANCHOR BOLTS

SCALE : ½"= 1'-0"

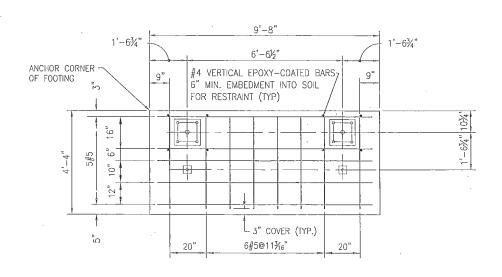


RAPID RIDE RR-10 SHELTER FOOTING
REBAR BLOCKOUTS FOR SHELTER ANCHOR BOLTS
SCALE: ½"= 1'-0"



RAPID RIDE RR-15 SHELTER FOOTING (FOR RR206/RR208/RR208B)

SCALE: ½" = 1'-0"



RAPID RIDE RR-10 SHELTER FOOTING (RR124/RR125/RR126)

REINFORCEMENT LAYOUT DETAILS

SCALE: ½" = 1'-0"

Call before you D**i**g.

1-800-424-5555 underground service (USA)

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	REBAR LAYOUT DETAILS	RB	PE	12/11
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METRO TRANSIT DIVISION
RAPIDRIDE PROGRAM – C , D AND E LINES
PASSENGER FACILITIES IMPROVEMENTS
RAPID RIDE SHELTER FOOTING
REBAR LAYOUT DETAILS

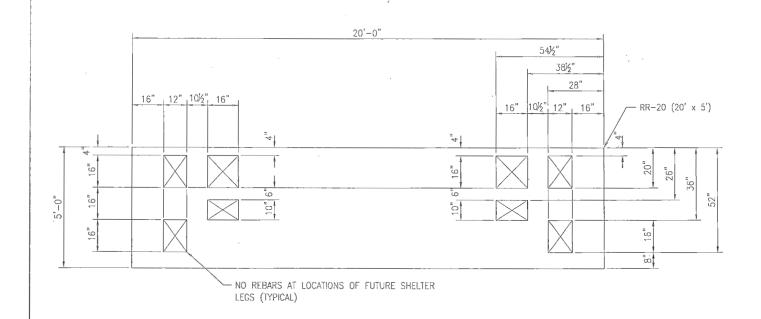
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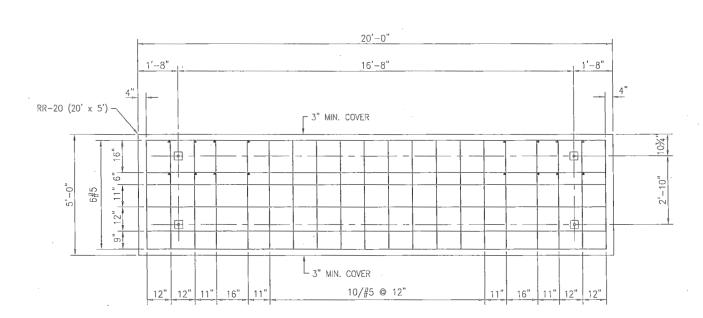
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RAPID RIDE RR-20 SHELTER FOOTING (FOR RR206/RR208/RR208B/F22)

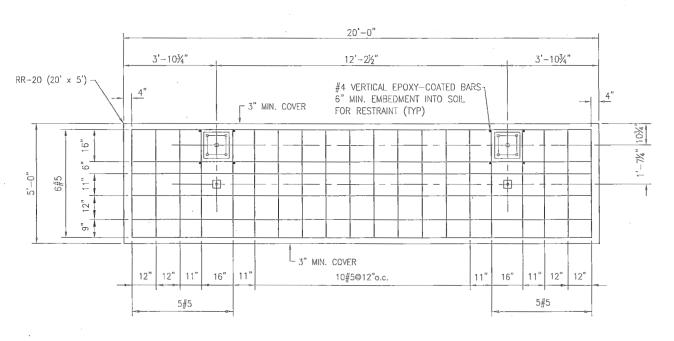
REBAR BLOCKOUTS FOR SHELTER ANCHOR BOLTS

SCALE: ½"= 1'-0"



RAPID RIDE RR-20 SHELTER FOOTING (FOR F-22)

SCALE: 1'-0"



RAPID RIDE RR-20 SHELTER FOOTING (FOR RR206/RR208)

SCALE: ½"= 1'-0"

Call before vou Dig.

1-800-424-5555

A REBAR LAYOUT DETAILS RB PE 12/11
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METRO TRANSIT DIVISION

RAPIDRIDE PROGRAM – C , D AND E LINES

PASSENGER FACILITIES IMPROVEMENTS

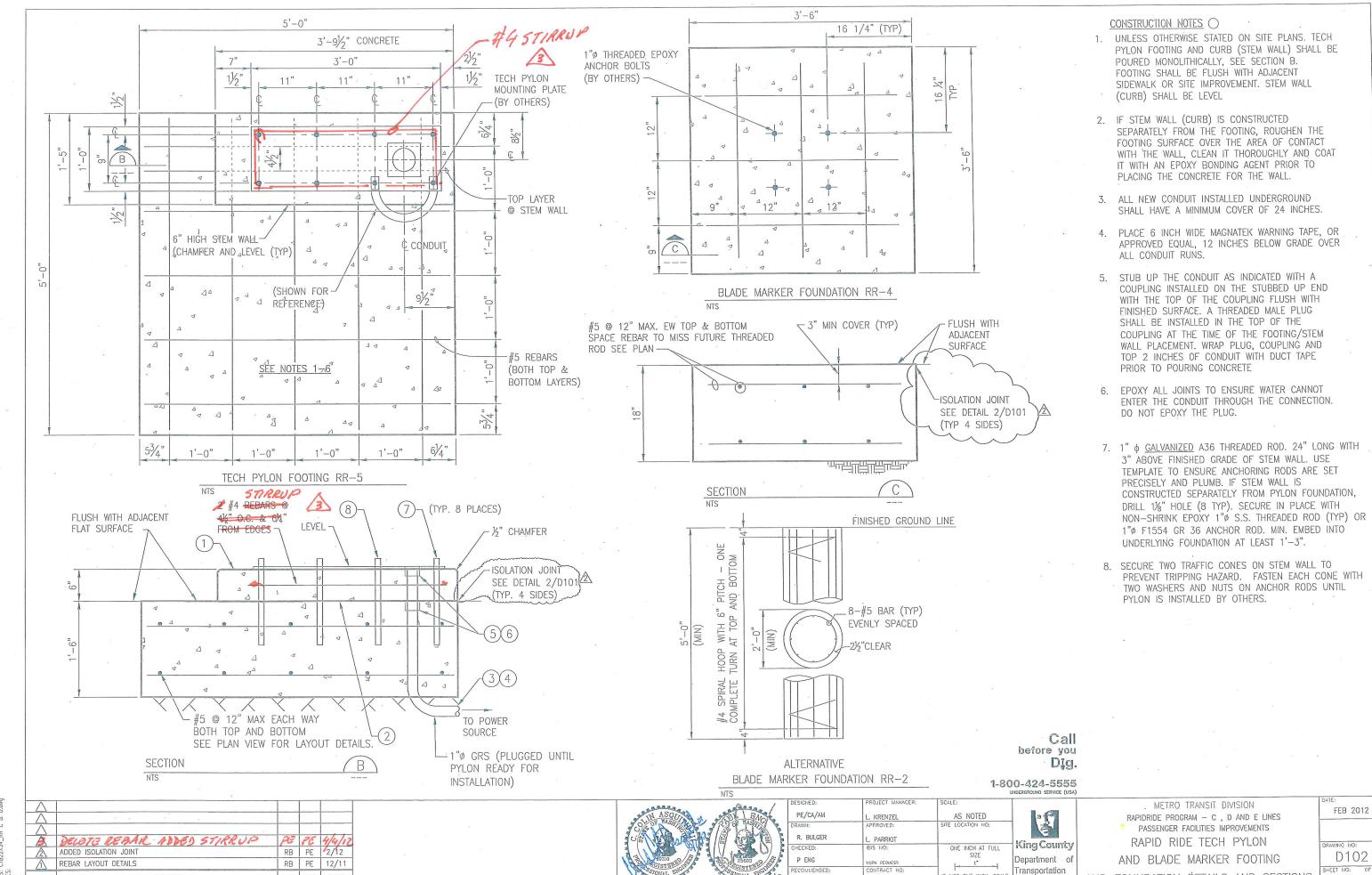
RAPID RIDE SHELTER FOOTING

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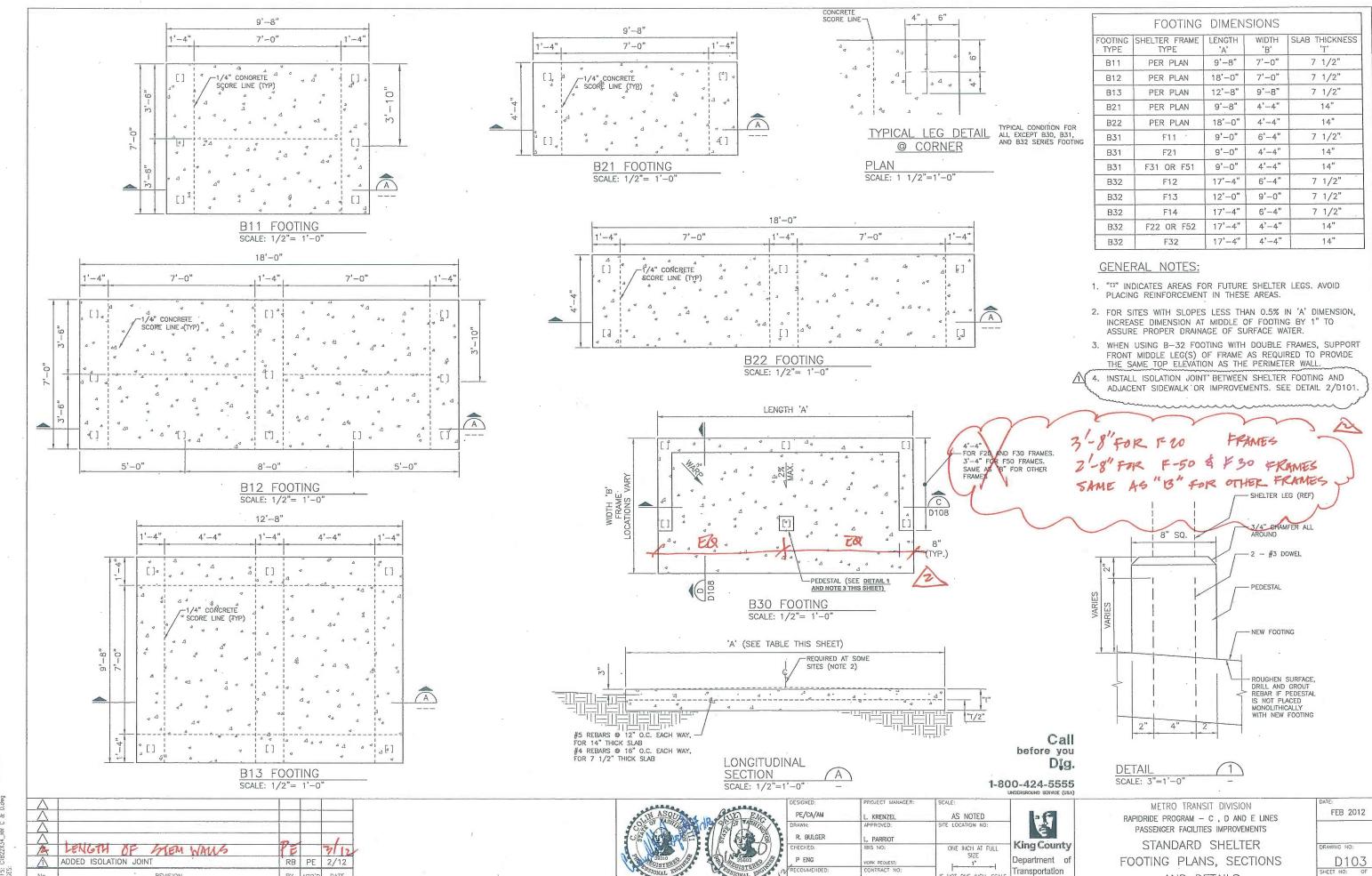
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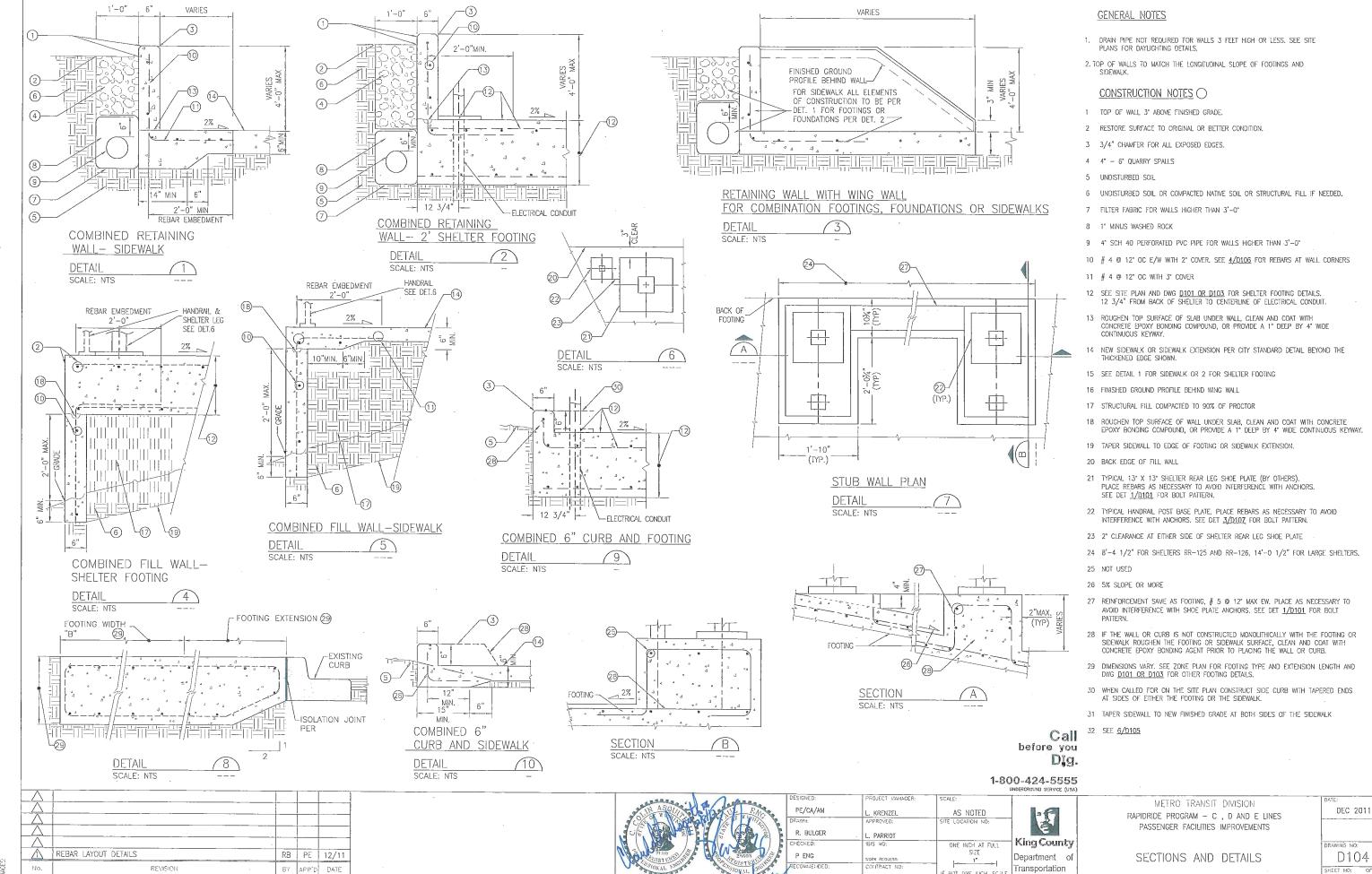
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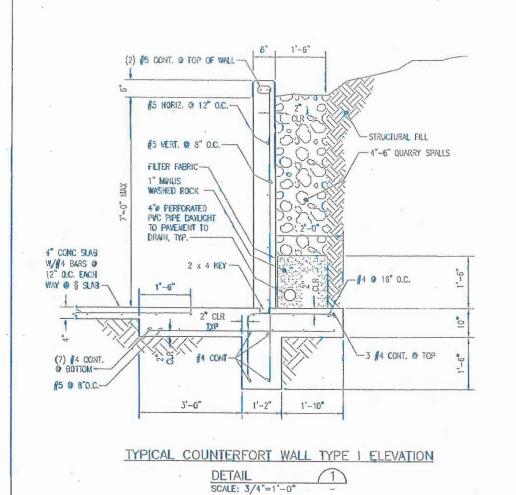
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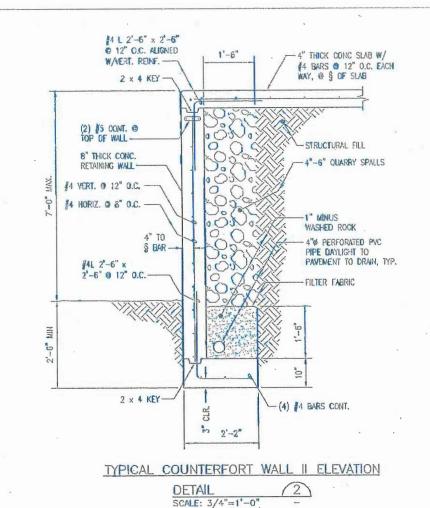
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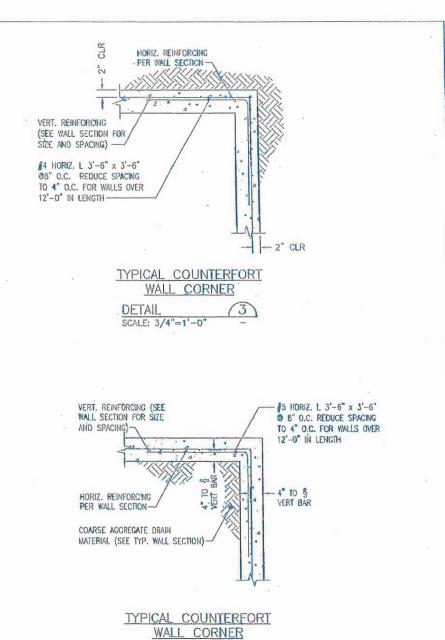
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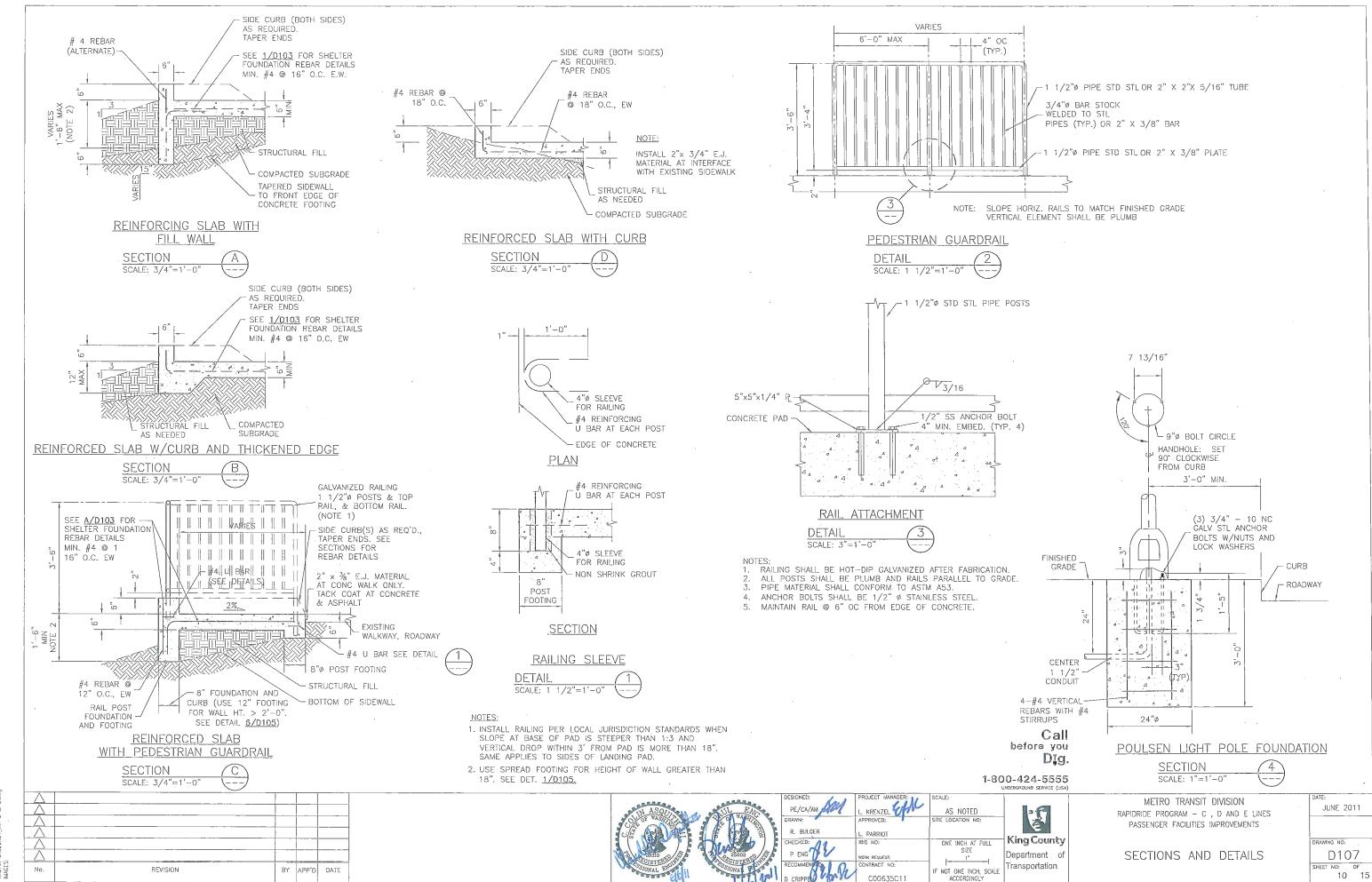


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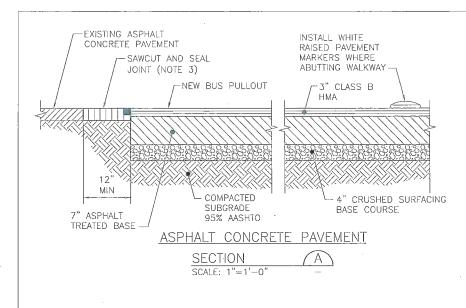
METRO TRANSIT DIVISION RAPIDRIDE PROGRAM - C , D AND E LINES PASSENGER FACILITIES IMPROVEMENTS

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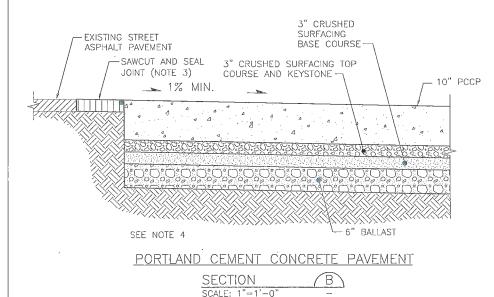


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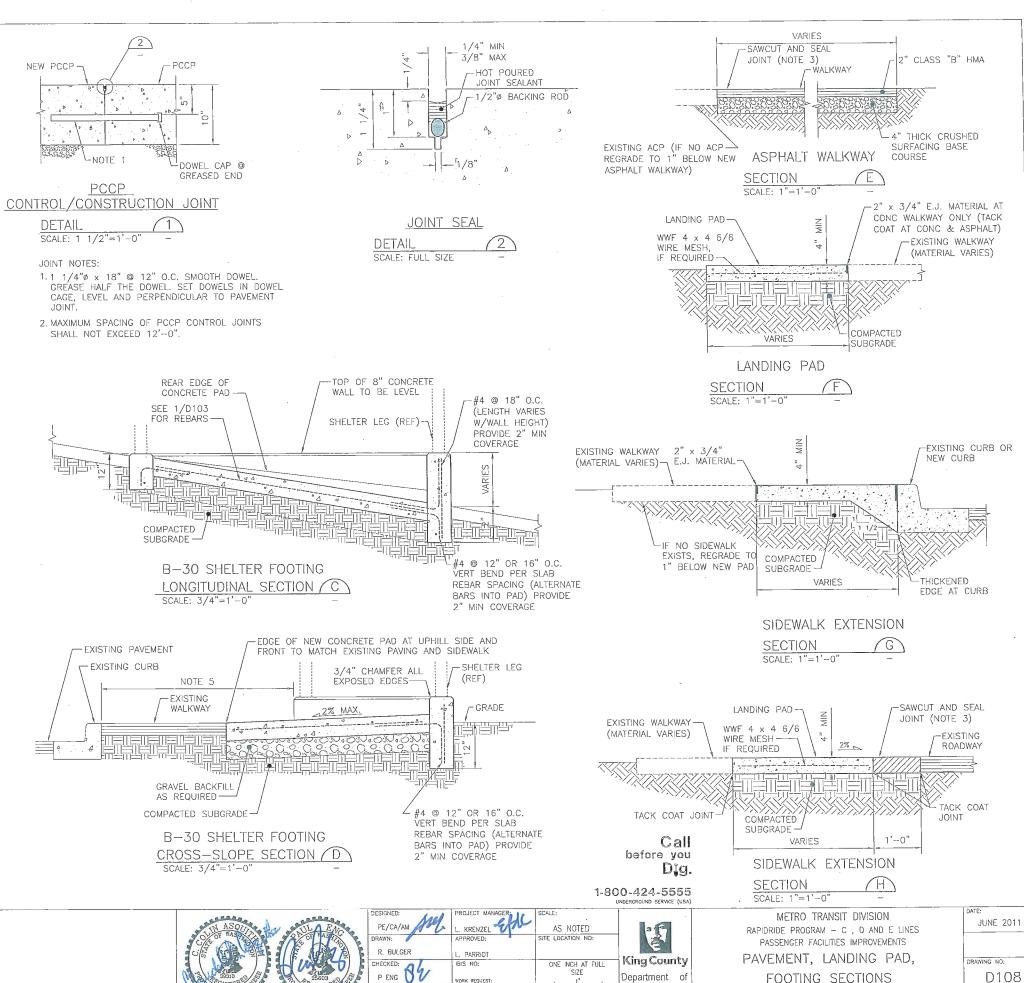
NOTES

- 1. NEW PULLOUTS, WALKWAYS, AND LANDING PADS SHALL BE BUILT TO MATCH WITH EXISTING SURFACE TO MAINTAIN NATURAL DRAINAGE COURSES. WALKWAY AND LANDING PAD CROSS SLOPES SHALL MEET OR EXCEED "ADA" REQUIREMENTS, i.e. 2% MAX SLOPE. TYPICAL PASSENGER LANDING PAD DIMENSIONS: 10' WIDE AND 8' (MIN) 9' (PREFERRED) DEEP.
- 2. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
- 3. SAWCUT AND REMOVE SECTION OF EXISTING PAVEMENT UPON COMPLETION OF BUS PULLOUT. RESTORE ASPHALT PAVEMENT TO MATCH EXISTING. JOINT SHALL BE ½" WIDE X 5/4" DEEP. FILL JOINT WITH SILICONE JOINT FILLER.
- 4. TRANSVERSE CONTROL/CONSTRUCTION JOINT SHALL BE PLACED TO MATCH CURB JOINTS OR 12'-0" O.C. MAX, WHICHEVER IS LESS. SEE 1/- & 2/- FOR PCCP TRANSVERSE/EXPANSION JOINT DETAILS.
- 5. MINIMUM HORIZONTAL CLEARANCE BETWEEN FACE OF CURB AND FACE OF ANY STRUCTURE SHALL BE 3 FT.



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APP'D DATE



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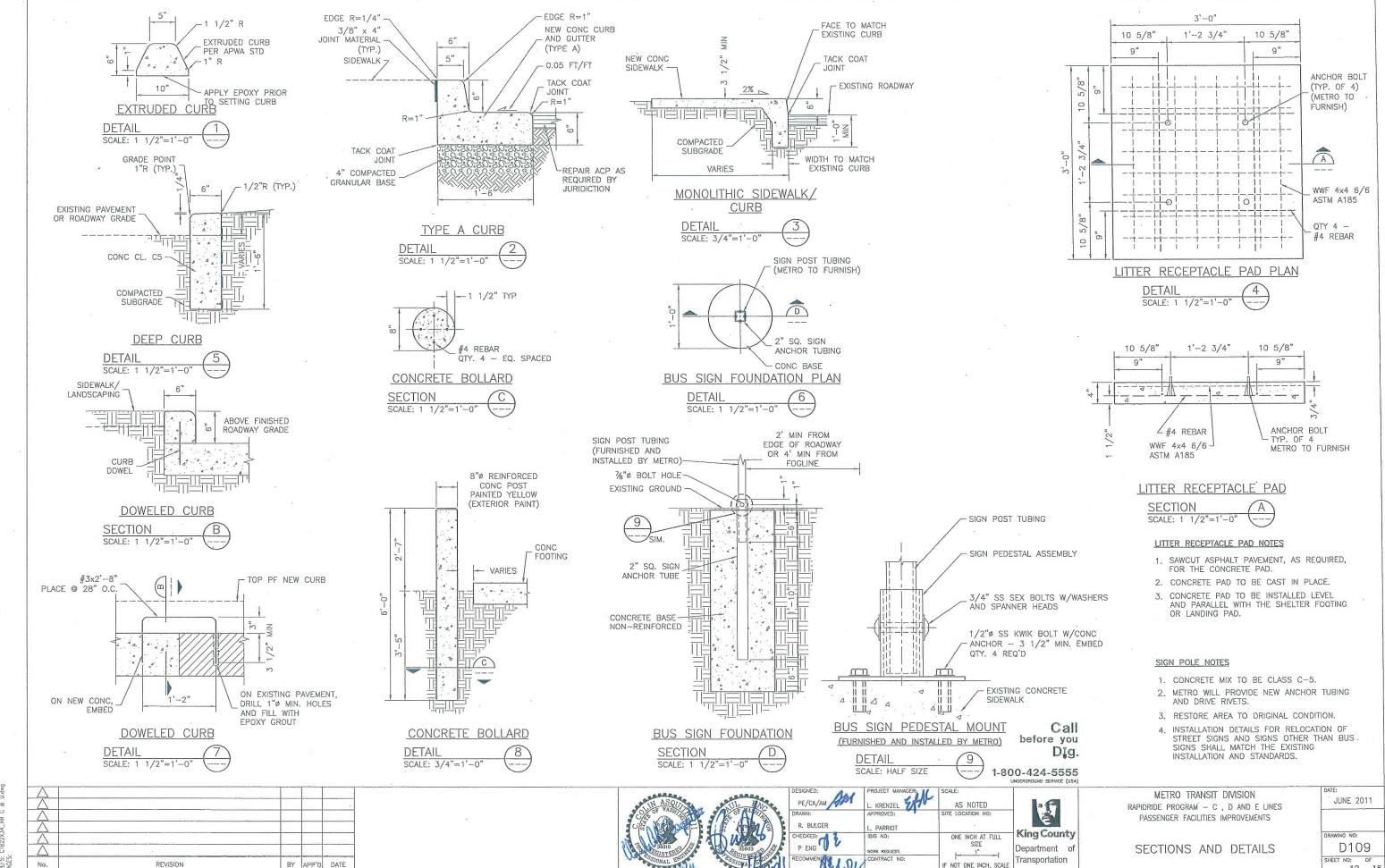
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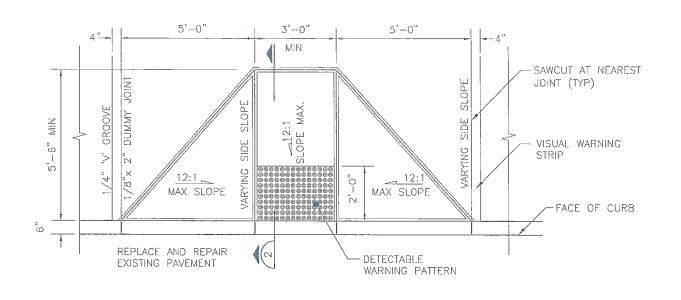
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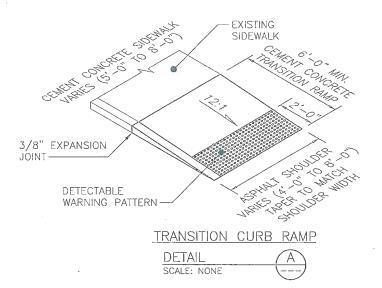
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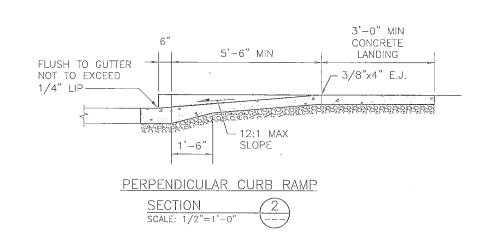
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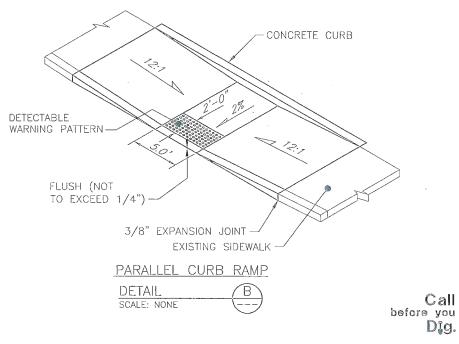
NOTES:

- 1. RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCLUDING HYDRANTS, POLES, AND INLETS.
- 2. RAMP SHALL HAVE DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F_45.10.00.
- 3. RAMP C SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY THE PROJECT REPRESENTATIVE
- 4. WHERE REQUIRED BY CITY OR COUNTY STANDARDS, 4" WIDE VISUAL WARNING STRIP SHALL BE PROVIDED BETWEEN EXPANSION AND SCORED (CONTRACTION) JOINTS.
- 5. REMOVAL OF EXISTING CURB RAMPS OR SIDEWALK FOR CONSTRUCTION OF NEW CURB RAMPS SHALL BE TO THE NEAREST JOINT. SAWCUT AT EXPANSION JOINT AS REQUIRED. REMOVE SIDEWALK AND CURB AND GUTTER AS REQUIRED TO OBTAIN ADEQUATE SPACING FOR NEW CURB RAMP TRANSITION AND WARNING STRIP(WHERE REQUIRED).
- 6. WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF THE STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET.
- 7. CURB RAMP LOCATION AND CONSTRUCTION ON ARTERIAL AND RESIDENTIAL STREETS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE CITY OR COUNTY IN WHICH CONSTRUCTION IS TO BE DONE.



BY APP'D DATE

SCALE: 1/2"=1'-0"



1-800-424-5555 UNDERGROUND SERVICE (USA)



DESIGNED:	PROJECT MANAGER:	SCALE:	
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METRO TRANSIT DIVISION

RAPIDRIDE PROGRAM - C , D AND E LINES

PASSENGER FACILITIES IMPROVEMENTS

COURTY

CURB RAMP

CURB RAMP

CONSTRUCTION DETAILS

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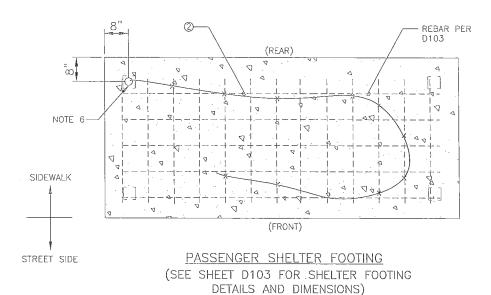
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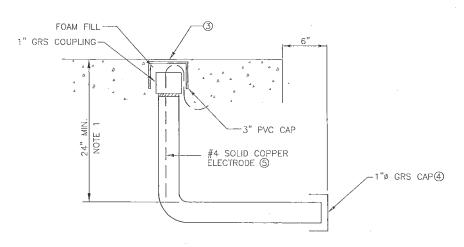
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JUNE 2011

INTERNAL SHELTER SOLAR LIGHTING SCALE: NTS

BY APP'D DATE





DETAIL "1"

INTERNAL SHELTER LIGHTING

BURIED CONDUIT AND GROUNDING ELECTRODE

SCALE: NTS

GENERAL NOTES:

 THIS CONDUIT/GROUNDING ELECTRODE DESIGN IS FOR BUS STOPS WHERE HARD—WIRE ELECTRICAL CONNECTION IS NOT READILY AVAILABLE. IT ALLOWS FOR FUTURE HARD—WIRE CONNECTION FOR 110V SHELTER LIGHTING AND/OR GROUNDING FOR A SOLAR SHELTER LIGHTING SYSTEM.

CONSTRUCTION NOTES: ()

- 1. CONDUIT SHALL BE INSTALLED 24" BELOW FINISHED GRADE.
- FOR SHELTER GROUNDING, TIE 23 FEET OF #4 SOLID COPPER GROUNDING ELECTRODE TO THE SHELTER FOUNDATION REBARS WITH TIE WIRES. LEAVE 2 FEET AT THE OTHE END FOR ATTACHMENT TO THE GROUNDING LUG ON THE SHELTER LEG. SEE DETAIL "1" AND NOTE 3 BFLOW.
- 3. PLACE THE 2 FT #4 COPPER ELECTRODE INTO THE 1" DIA GRS CONDUIT AS SHOWN IN DETAIL "1". SECURE 1" GRS COUPLING IN PLACE. SEAL THE GRS CONDUIT/COUPLING WITH DUCT TAPE. CAP THE ASSEMBLY WITH A 3" PVC CAP AND FILL VOID WITH SPRAY—ON FOAM. TOP OF PVC CAP SHALL BE 1/4" BELOW THE FINISHED CONCRETE GRADE.
- 4. IF NO SPECIFIED CONNECTION TO A POWER SOURCE, THE 1" GRS CONDUIT SHALL BE EXTENDED 6 INCHES BEYOND THE EDGE OF SHELTER FOUNDATION AND CAPPED.
- 5. THE #4 SOLID COPPER GROUND ELECTRODE SHALL BE ENCLOSED BY AT LEAST 2" OF CONCRETE IN ACCORDANCE WITH NEC 250.52 (A) (3).
 6. FOR STANDARD METRO SHELTERS, ELECTRICAL LEG SHALL BE AT THE
- FOR SHANDARD METRO SHELLERS, ELECTRICAL LEG SHALL BE AT THE REAR RIGHT CORNER. FOR RAPID RIDE SHELTERS, ELECTRICAL LEG SHALL BE AT THE REAR LEFT CORNER. (LOOKING INTO SHELTER FROM STREET SIDE.)
- 7. (INFORMATION FOR METRO'S SHELTER CREW: PRIOR TO INSTALLING SHELTER WITH A SOLAR LIGHTING SYSTEM, CHIP AWAY THE ¼" CONCRETE COVER AND REMOVE THE 3" PVC CAP. PULL OUT THE #4 COPPER ELECTRODE. CONNECT THE ELECTRODE TO THE SHELTER LEG VIA A GROUNDING LUG. SEAL THE 1" DIA GRS WITH A WATER-TIGHT PLUG FOR FUTURE USE.)

Call before you D**i**g.

1-800-424-5555 UNDERGROUND SERVICE (USA)

ACCORDINGLY

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L. KRENZEL AS NOTED

APPROVED:

L. PARRIOT

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CONTRACT NO:

IF NOT ONE INCH, SCALE:

SCALE:

AS NOTED

AS NOTED

ONE INCH AT FULL

SIZE

1'

IF NOT ONE INCH, SCALE

King County
Department of
Transportation

METRO TRANSIT DIVISION

RAPIDRIDE PROGRAM — C, D AND E LINES

PASSENGER FACILITIES IMPROVEMENTS

INTERNAL SOLAR SHELTER LIGHTING ELECTRICAL DETAILS DRAWING NO:

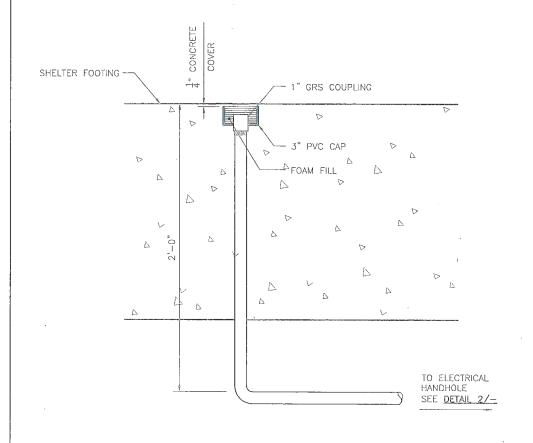
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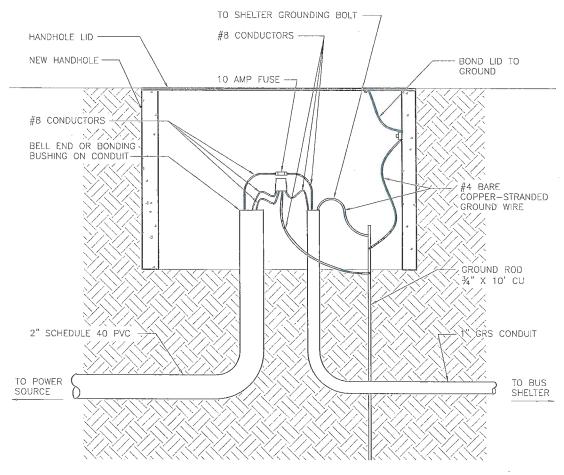
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ELECTRICAL CONDUIT STUB-UP

DETAIL 1 SCALE: 3" = 1'-0" S5.01 HANDHOLE CONNECTION

DETAIL 2 SCALE: 3" = 1'-0" -

NOT FOR USE WHEN ZONE IS POWERED BY POWER PEDESTAL

CONSTRUCTION NOTES

ELECTRICAL CONDUIT

- 1. ALL NEW CONDUIT INSTALLED UNDERGROUND SHALL HAVE A MINIMUM COVER OF 24 INCHES.
- PLACE 6" WIDE WARNING TAPE 12 INCHES BELOW GRADE OVER ALL CONDUIT RUNS. TAPE SHALL BE MAGNATEC®, OR PRODUCT EQUIVALENT IN MATERIAL TYPE, SIZE, STYLE AND DURABILITY, SUITABLE FOR THIS SPECIFIED APPLICATION.
- 3. STUB UP CONDUIT IN LOCATIONS INDICATED BY PLAN
 1/S5.01. CONFIGURE AS DESCRIBED BY DETAIL 1/-.
 INSTALL COUPLING AND THREADED PLUG. SET PVC CAP
 1/4-INCH BELOW FINISH GRADE DESIGN OF FOUNDATION AT
 STUB-UP POINTS. FILL CAP CAVITY WITH FOAM AND
 COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND
 RECOMMENDATIONS FOR DRYING TIME PRIOR TO POURING
 CONCRETE
- 4. EPOXY ALL CONDUIT JOINTS TO ENSURE WATER CANNOT ENTER THE CONDUIT THROUGH THE CONNECTION. DO NOT EPOXY THE REMOVABLE PLUG.
- 5. COORDINATE THE REQUIREMENTS OF THIS WORK WITH THE RELATED WORK OF OTHER TRADES, INCLUDING CONCRETE FORMING AND POURING.
- 6. THE CONTRACTOR SHALL PLACE A GROUNDING ROD IN THE HANDHOLE IN ACCORDANCE WITH NEC 250.53 (G) AND 250.66 (A) AND INSTALL A BELL END OR BONDING BUSHING ON THE CONDUIT. THE CONTRACTOR SHALL BOND ALL METAL PARTS OF THE HANDHOLE TO THE GROUND ROD, PROVIDE SUFFICIENT SLACK IN GROUNDING THE LID TO ALLOW REMOVAL. THE GROUNDED SERVICE CONDUCTOR (NEUTRAL) SHALL ALSO BE BONDED TO THE GROUND ROD. SEE HANDHOLE CONNECTION DETAIL 2/-.
- 7. CONDUCTOR & FUSE SHALL BE INSTALLED BY KING COUNTY METRO.

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Vo.	REVISION	BY	APP'D DATE





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SITÉ LOCATION NO:

ONE INCH AT FULL SIZE

IF NOT ONE INCH, SCALE ACCORDINGLY

NOT TO SCALE
STÉ LOCATION NO:

King County
Department of Transportation

METRO TRANSIT DIVISION

RAPIDRIDE PROGRAM—C AND D LINES

PASSENGER FACILITIES IMPROVEMENTS

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HANDHOLE CONDUIT DETAILS STANDARD SHELTER JUNE 2011

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